

2-1-2 Standard Roller Chain and Maximum Horsepower Ratings

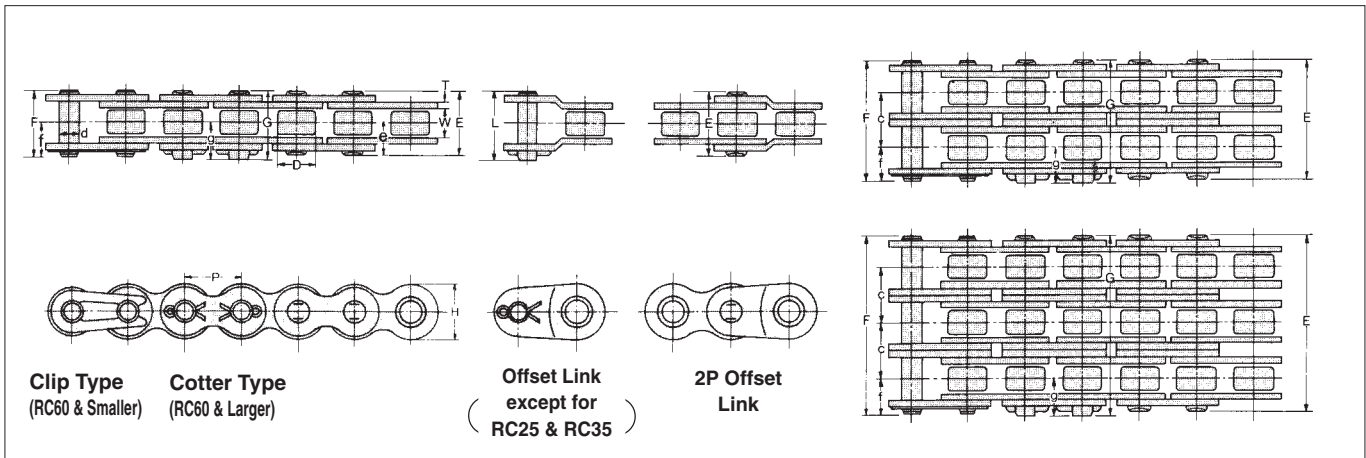
The DID standard roller chains are available in 14 sizes ranging from RC25 to RC240. All are in conformity with JIS (Japanese Industrial Standards) and ANSI (American National Standard Institute) standards.



Cautions for use

1. For chain selection, see "Tables of maximum horsepower ratings for standard roller chains" (P.15~ 28) and "Designing of roller chain transmission" (P.91 ~ 96).
2. Standard roller chains up to quintuplex can be manufactured. For their dimensions, see the pages referring to the maximum horsepower ratings.
3. The connecting links are generally Clip Type or Cotter Type connecting links in which the pins are clearance-fitted with the connecting plate. Since clearance-fit links are inferior to the base chain in maximum allowable load as in the case of one pitch

- offset links, "Slow-speed selecting" (P. 92) cannot be referred to. Since the maximum horsepower ratings are determined considering the strength of connecting links and offset links, the clearance-fit connecting links and offset links can be used if they are selected according to the "General selection".
4. For severe applications, use interference-fit connecting links and/or Ultimate Power Series roller chain. For the use of offset links, 2P offset link is recommended



Dimensions

Unit (inch)

Chain No.		Pitch P	Roller Link Width W	Roller (Bush) Dia. D	Pin						Transverse Pitch C	Plate		JIS Min.Tensile Strength lbs	DID Min.Tensile Strength lbs	DID Avg. Tensile Strength lbs	DID Max.Allowable Load lbs	Approx. Weight (kg/m)	No. of Links per Unit		
DID	ANSI				d	E	F	G	L	f		g	T							H	
RC25	25	0.250	0.125	0.130	0.091	0.307	0.335	----	----	0.185	----	0.252	0.028	0.232	785	814	990	165	0.09	480	
RC35	35	0.375	0.188	0.200	0.141	0.472	0.516	----	----	0.287	----	0.398	0.049	0.354	1773	1980	2530	484	0.21	320	
RC41	41	0.500	0.251	0.306	0.141	0.539	0.575	----	----	0.602	0.311	----	0.047	0.378	1503	1980	2420	528	0.26	240	
RC40	40	0.500	0.313	0.312	0.156	0.650	0.693	----	----	0.760	0.374	----	0.567	0.059	0.472	3095	3520	4290	836	0.42	240
RC50	50	0.625	0.375	0.400	0.200	0.799	0.862	----	----	0.909	0.457	----	0.713	0.079	0.591	4891	5940	6930	1540	0.71	192
RC60	60	0.750	0.500	0.469	0.235	1.000	1.059	1.098	1.181	0.563	0.594	0.898	0.094	0.713	6978	7920	9900	2090	0.97	160	
RC80	80	1.000	0.625	0.625	0.313	1.283	----	1.394	1.433	----	0.748	1.154	0.126	0.945	12474	16060	17600	3300	1.71	120	
RC100	100	1.250	0.750	0.750	0.376	1.555	----	1.673	1.713	----	0.898	1.409	0.157	1.177	19450	24200	26620	5060	2.54	96	
RC120	120	1.500	1.000	0.875	0.437	1.957	----	2.087	2.130	----	1.110	1.787	0.189	1.413	27953	33000	37400	6820	3.68	80	
RC140	140	1.750	1.000	1.000	0.500	2.110	----	2.299	2.346	----	1.244	1.925	0.220	1.650	37913	43340	48400	9020	4.77	68	
RC160	160	2.000	1.250	1.125	0.563	2.504	----	2.685	2.744	----	1.433	2.303	0.252	1.882	49892	55000	60500	11880	6.58	60	
RC180	180	2.250	1.406	1.406	0.687	2.815	----	3.043	3.122	----	1.630	2.591	0.280	2.118	0	74800	81400	13860	8.52	54	
RC200	200	2.500	1.500	1.562	0.781	3.067	----	3.346	3.437	----	1.807	2.819	0.315	2.362	77845	96800	105600	16500	11.06	48	
RC240	240	3.000	1.875	1.875	0.937	3.748	----	4.051	4.150	----	2.189	3.457	0.374	2.815	112259	139700	154000	22220	15.62	40	

Note: Those marked with ---- indicate bush chain.